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APPLICATION NO.	FILING D	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/936,293	936,293 01/24/2002		Yuji Kakehi	2576-119	2438
6449	7590	12/17/2004		EXAMINER	
ROTHWEI	LL, FIGG, ERM	NST & MAN	SHARMA, SUJATHA R		
1425 K STR SUITE 800	EET, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005				2684	
				DATE MAILED: 12/17/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		09/936,293	KAKEHI, YUJI				
	Office Action Summary	Examiner	Art Unit				
_		Sujatha Sharma	2684				
Period fo	 The MAILING DATE of this communication apport 	pears on the cover sheet with the c	orrespondence address				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.11 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)[🛛	Responsive to communication(s) filed on 24 Ja	anuary 2002.					
		action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ 5)⊠ 6)⊠ 7)□	Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) 4-10 is/are allowed. Claim(s) 1-3 and 11-15 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	on Papers						
9)🖂	The specification is objected to by the Examine	r.					
10)	10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	ınder 35 U.S.C. § 119						
12) [] a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment		<u> </u>					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) 🛚 Infom	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 1/24/02, 9/12/01.		atent Application (PTO-152)				

Application/Control Number: 09/936,293

Art Unit: 2684

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terasawa [US 2002/0122396] in view of Hall [US 6,208,871].

Regarding claim 1, Terasawa discloses a mobile communication terminal comprising:

- a receiver receiving a radio wave from a base station; see Fig. 5, element 160
- a sampling unit sampling a signal received by said receiver; see Fig. 5, element 160, paragraph 81
- a demodulator (5) demodulating the signal sampled by said sampling unit (3); see Fig. 5, element 162A 162N, paragraph 81
- a cell selector selecting a most significant cell/sector based on data demodulated by said demodulator; see paragraphs 21, 81-83
- a path detector detecting multiple paths based on the signal sampled by said sampling unit; see paragraphs 21, 81-83

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clocks with changed timing by inserting different frequency clocks into the sampling clock based

on the cell/sector selected by said cell selector and based on the primary path detected by said

path detector, and supplying the sampling clock to said sampling unit.

Hall, in the same field of endeavor, teaches a method wherein a clock generator generating sampling clocks with changed timing by inserting different frequency clocks into the sampling

clock based on the cell/sector selected by said cell selector and based on the primary path

detected by said path detector, and supplying the sampling clock to said sampling unit. See col.

9, lines 29-53.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Hall to Terasawa in order for the mobile to properly synchronize with the selected base station and establish an effective communication link with the selected base station.

Regarding claim 2, Terasawa further discloses a method wherein said clock generator inserts one different frequency clock into the sampling clock to change the timing of said sampling clock. See col. 9, lines 29-53.

Regarding claim 3, Terasawa further discloses a method wherein said mobile communication terminal is a mobile communication terminal employing a code division multiple access system. See fig. 2, col. 2, lines 65-67

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3. Claims 11-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Terasawa[US 2002/0122396] in view of Padovani [US 2003/0142656].

Regarding claims 11-14, Terasawa discloses a mobile communication terminal comprising:

- a receiver receiving a radio wave from a base station; see Fig. 5, element 160
- a sampling unit sampling a signal received by said receiver; see Fig. 5, element 160, paragraph 81
- a cell selector selecting a most significant cell/sector based on signal sampled by said sampling unit; see paragraphs 21, 81-83
- a path detector detecting multiple paths based on the signal sampled by said sampling unit; see paragraphs 21, 81-83

However, Terasawa does not disclose a method of cell selection based on two thresholds. Padovani in the same field of endeavor, teaches a method of cell selection based on two-thresholds/ hysteresis value. See paragraphs 24 and 95.

Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to provide the above teachings of Padovani to Terasawa in order to avoid unnecessary handoff and thus improve system performance.

Regarding claim 15, Terasawa further discloses a method wherein said mobile communication terminal is a mobile communication terminal employing a code division multiple access system. See fig. 2, col. 2, lines 65-67

Allowable Subject Matter

4. Claim 4 is allowed. The following is a statement of reasons for the indication of allowable subject matter:

Claim 4 discloses a unique feature wherein a determining unit detecting a primary path from the multiple paths detected by said path detector, and determining whether said primary path is to be changed or not, based on the states of the forward alignment and backward alignment of said primary path;

Therefore independent claim 4 and its dependent claims 5-10 are allowed.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Suzuki [JP 10075476] Base

Base station detection circuit

Kanai [US 5,239,667]

Method of controlling handoff in cellular mobile radio

communication system

Mulford [US 5,991,901]

Indication of coverage area limits within digital communication

systems

Umemoto [US 5,960,335]

Digital radio communication apparatus with RSSI information

measuring function

Chuang [US 5,363,376]

Method and apparatus for synchronizing timing among radio ports

in wireless communications systems

Onoda [JP 03268697]

Mobile radio communication system

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sujatha Sharma whose telephone number is 703-305-5298. The examiner can normally be reached on Mon-Fri 7.30am - 4.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sujatha Sharma December 7, 2004

NAY MAUNG SUPERVISORY PATENT EYAMINER